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(phytantriol or phytanetriol)and prevent\$	3

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Database: IBM Technical Disclosure Bulletins

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(phytantriol or phytanetriol)and prevent\$

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Search History**Today's Date: 11/29/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
JPAB,EPAB,DWPI	(phytantriol or phytanetriol)and prevent\$	3	<u>L6</u>
JPAB,EPAB,DWPI	(phytantriol or phytanetriol)and prevem\$	0	<u>L5</u>
JPAB,EPAB,DWPI	(phytantriol or phytanetriol)and protec\$	5	<u>L4</u>
JPAB,EPAB,DWPI	phytantriol or phytanetriol	36	<u>L3</u>
USPT	(\$dihydroxyphytol).ab.	0	<u>L2</u>
USPT	(phytanetriol or phytantriol or \$hexadecanetriol).ab.	5	<u>L1</u>

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L4: Entry 1 of 5

File: JPAB

Oct 22, 1986

PUB-NO: JP361236737A
DOCUMENT-IDENTIFIER: JP 61236737 A
TITLE: PRODUCTION OF PHYTANETRIOL

PUBN-DATE: October 22, 1986

INVENTOR-INFORMATION:

NAME

COUNTRY

MORI, TOSHIKI

SHIONO, MANZO

FUJITA, YOSHIJI

TAMAI, HIRONOBU

ASSIGNEE-INFORMATION:

NAME

COUNTRY

KURARAY CO LTD

APPL-NO: JP60077927

APPL-DATE: April 11, 1985

US-CL-CURRENT: 568/867

INT-CL (IPC): C07C 31/22; B01J 23/22; B01J 23/28; B01J 27/24; B01J 31/02; B01J 31/20; B01J 31/22; C07C 29/10; C07D 303/14

ABSTRACT:

PURPOSE: To obtain the titled substance useful as a base of skin-protection cosmetic, only by molecular distillation process, without leaving color and unagreeable odor, by reacting isophytol with tert-butyl hydroperoxide in the presence of a specific metal catalyst and opening the ring of the resultant product in the presence of an acidic catalyst.

CONSTITUTION: 1 mol of isophytol is made to react with preferably 1.0~1.3 mol of tert-butyl hydroperoxide in the presence of a metallic catalyst consisting of a derivative of vanadium or molybdenum at 50~150°C, preferably 80~110°C to obtain an epoxy compound. The epoxy compound is subjected to the ring-opening reaction in the presence of an acidic catalyst such as sulfuric acid. After the completion of the reaction, the reaction mixture is neutralized with an aqueous solution of an alkali such as sodium hydroxide and extracted with a solvent such as ether. The extract is washed with water, and the crude objective compound is subjected to molecular distillation to obtain the objective colorless and odorless transparent substance.

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575 POLLUT!
38568 PROTECT
17172 PROTECTS
53845 PROTECT
(PROTECT OR PROTECTS)
17186 PROTECT!
148521 PREVEN!

L5 1 L4 AND (POLLUT! OR PROTECT OR PROTECT! OR PREVEN!)

=> d 15 ti

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
TI Thermally stable hair care compositions containing polysiloxanes

=> d 15 bib

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
AN 2000:534954 CAPLUS
DN 133:139914
TI Thermally stable hair care compositions containing polysiloxanes
IN Schick, Laura A.; Sanchez, Claudia P.
PA Avon Products, Inc., USA
SO PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044337	A1	20000803	WO 1999-US29450	19991213
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI US 1999-240391 A 19990129

RE.CNT 4

RE

- (1) Croda Inc; Crodasone W Product Literature 1995, P1
- (2) Jones; EP 0540357 A2 1993 CAPLUS
- (3) Rath; US 5993792 A 1999 CAPLUS
- (4) Simmons; US 5527530 A 1996 CAPLUS

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L4: Entry 5 of 5

File: DWPI

Oct 22, 1986

DERWENT-ACC-NO: 1986-321473

DERWENT-WEEK: 198649

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TITLE: 3,7,11,15-Tetra:methyl- 1,2,3-tri:hydroxy:hexadecane prepn. - by reacting isophytol with tert-butyl hydroperoxide in presence of metal catalyst then opening epoxy cpd. ring before distn. of tri:ol

PATENT-ASSIGNEE:

ASSIGNEE

CODE

KURARAY CO LTD

KURS

PRIORITY-DATA: 1985JP-0077927 (April 11, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61236737 A	October 22, 1986		005	
JP 92060455 B	September 28, 1992		005	C07C031/22

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP61236737A	April 11, 1985	1985JP-0077927	
JP92060455B	April 11, 1985	1985JP-0077927	
JP92060455B		JP61236737	Based on

INT-CL (IPC): B01J 23/22; B01J 23/28; B01J 27/24; B01J 31/02; B01J 31/20; B01J 31/22; C07B 61/00; C07C 29/10; C07C 31/22 ; C07D 303/14

→ ABSTRACTED-PUB-NO: JP61236737A

BASIC-ABSTRACT:

3,7,11,15-Tetramethyl- 1,2,3-trihydroxyhexadecane (phytanetriol) is prepd. by reacting isophytol with tert.-butyl hydroperoxide (TBHP) in presence of vanadium or molybdenum deriv. metal catalyst to form epoxy cpd., opening ring of epoxy cpd. in presence of acidic catalyst, and performing mol. distn. of formed triol.

Epoxidation is performed using 0.5-5, pref. 1.0-1.5 moles of TBHP to 1 mole of isophytol. Various metal catalysts of vanadium or molybdenum derivs. are used. Pref. examples are those contg. chains of following formulae, -M=O, -M:O=, -O-M=O, -O-M:O=, where M is V or Mo which may further combine with other atom by one or more ionic bond(s) or covalent bond(s). Vanadium pentoxide, ammonium metavanadate, tert.-butyl (or cyclohexyl or neopentyl)-orthovanadate, vanadyl acetylacetonate, hexacarbonylmolybdenum, and tricarbonyltri acetonitrilemolybdenum are esp. pref. These catalysts are used in amt. of 0.001-10wt.%, pref. 0.01-1.0wt.% of isophytol. Reaction temp. is usually 50-150 deg.C, pref. 80-110 deg.C. Acidic catalysts, used in ring-opening reaction of epoxy cpd. are e.g., sulphuric acid, hydrochloric acid, phosphoric acid and perchloric acid, which are used in amt. of 1-100wt.%, pref. 5-20wt.% at near room temp. pref. in presence of solvent e.g., tetrahydrofuran or isopropyl alcohol.

USE/ADVANTAGE - Colourless clear phytanetriol having no unpleasant odour is

easily obtd. in high yields. (Phytanetriol is known as useful cosmetic component with protective action for skin or hair).

CHOSEN-DRAWING: Dwg.0/0

TITLE -TERMS: TETRA METHYL TRI HYDROXY HEXADECANE PREPARATION REACT ISOPHYTOL
TERT BUTYL HYDROPEROXIDE PRESENCE METAL CATALYST OPEN EPOXY COMPOUND RING DISTIL
TRI OL

DERWENT-CLASS: D21 E17

CPI-CODES: D08-B03; D09-E; E10-E04B; N03-C; N03-D; N05-B; N05-C;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H4 H403 H483 H8 M280 M316 M321 M333 M343 M383
M391 M416 M620 M720 M903 N113 N114 N205 N213 N242
N305 N309 N342 N362 N411 N441 N513 Q252 Q254

Chemical Indexing M3 *02*

Fragmentation Code

A423 A542 A910 A940 A950 A960 A980 C106 C108 C500
C550 C730 M411 M730 M903 Q421

Chemical Indexing M3 *03*

Fragmentation Code

C101 C108 C316 C540 C730 C800 C801 C802 C804 C805
M411 M730 M903 M910 Q421

Chemical Indexing M3 *04*

Fragmentation Code

B115 B701 B713 B720 B815 B831 C017 C100 C101 C108
C300 C730 C800 C801 C802 C804 C805 C806 C807 M411
M730 M903 M910 Q421

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0389S; 1692S ; 1704S ; 1711S ; 1714S ; 1926S

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-138980